



Class 7 Cheat Sheet

Check that Apache2 and MySQL Services are Running

<code>service apache2 status</code>	<code>service mysql status</code>
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Create MySQL Database

`mysql -u root -p`

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mysql> CREATE DATABASE database_name;
mysql> GRANT ALL PRIVILEGES ON database_name.*
      TO 'user_name'@'hostname'
      IDENTIFIED BY 'password';
mysql> FLUSH PRIVILEGES;
mysql> SHOW DATABASES;
```

CTL+C to exit

nano (text editor)

<code>nano -w <filename></code>	CTL+O - write Out
	CTL+X - eXit
CTL+K - Kut text	CTL+W - Where is text? (search)
CTL+U - Unkut text (paste)	CTL+W then CTL+R - Find and Replace

Permissions

<code>ls -al <filename></code>	4 - read (r)
<code>chmod 755 <directory></code>	2 - write (w)
<code>chmod 644 <filename></code>	1 - execute (x)
<code>find -type f -exec chmod 644 {} \;</code>	Change all Files
<code>find -type d -exec chmod 755 {} \;</code>	Change all Dirs

Compress File / Package Management

<code>Install unzip</code>	<code>apt-get install unzip</code>
<code>Unzip a ZIP file</code>	<code>unzip file.zip</code>
<code>Extract a TAR+GZIP file</code>	<code>tar zxvf file.tar.gz</code>
<code>Extract a TAR+BZIP2 file</code>	<code>tar jxvf file.tar.bz2</code>

Local Hosts File

<code>/etc/hosts</code> <code>C:\windows\system32\drivers\etc\hosts</code>	<code>w.x.y.z hostname</code>
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Network

<code>interface configuration file</code>	<code>/etc/network/interfaces</code>
<code># ethernet interface</code> <code>auto eth0</code> <code>iface eth0 inet static</code> <code>address 10.0.2.240</code> <code>netmask 255.255.255.0</code> <code>broadcast 10.0.2.255</code> <code>network 10.0.2.0</code> <code>gateway 10.0.2.2</code>	<code># interface alias</code> <code>auto eth0:0</code> <code>iface eth0:0 inet static</code> <code>address 10.0.2.250</code> <code>netmask 255.255.255.0</code> <code>broadcast 10.0.2.255</code> <code>network 10.0.2.0</code>
<code>Print IP Routes</code>	<code>route -n</code>
<code>Bring Down eth0</code>	<code>ifdown eth0</code>
<code>Bring Up eth0</code>	<code>ifup eth0</code>
<code>Bring Down alias eth0:0</code>	<code>ifdown eth0:0</code>
<code>Bring Up alias eth0:0</code>	<code>ifup eth0:0</code>
<code>Show all active interfaces</code>	<code>ifconfig -a</code>

Users and Groups

<code>Create User Account</code>	<code>useradd -m <username></code>
<code>Add Apache to the new user group</code>	<code>usermod -a -G <usergroup> www-data</code>
<code>User File</code>	<code>/etc/passwd</code>
<code>Group File</code>	<code>/etc/group</code>
<code>Password File</code>	<code>/etc/shadow</code>

OpenSSL

<code>Generate Key for Apache MOD_SSL</code>	<code>openssl genrsa -out mydomain.com.key 2048</code>
<code>Self-Sign SSL Key ro create SSL Certificate</code>	<code>openssl req -new -key mydomain.com.key -x509 -out mydomain.com.crt -days 999</code>

Apache	
<i>Test Configuration</i>	apachectl configtest
<i>Start Apache</i>	apachectl start
<i>Stop Apache</i>	apachectl stop
<i>Restart Apache</i>	apachectl restart
<i>Available Site Configs</i>	/etc/apache2/sites-available
<i>Enabled Site Configs</i>	/etc/apache2/sites-enabled
<i>Enable a website</i>	cd /etc/apache2/sites-enabled ln -s ../sites-available/website apachectl configtest service apache2 restart
<i>vhost config file</i>	/etc/apache2/sites-available/www.mydomain.com
<pre> <VirtualHost *:80> ServerName mydomain.com ServerAlias www.mydomain.com DocumentRoot /var/www/vhosts/mydomain.com/httpdocs TransferLog logs/mydomain.com-access.log ErrorLog logs/mydomain.com-error.log </VirtualHost> </pre>	

Apache Cont...	
<i>SSL vhost config file</i>	/etc/apache2/sites-available/www.mydomain.com
<pre> <VirtualHost 192.168.240.116:443> ServerName mydomain.com DocumentRoot /var/www/vhosts/mydomain.com/httpsdocs TransferLog logs/mydomain.com-access.log ErrorLog logs/mydomain.com-error.log SSLEngine on SSLCertificateFile \ /var/www/vhosts/mydomain.com/certs/mydomain.com.crt SSLCertificateKeyFile \ /var/www/vhosts/mydomain.com/certs/mydomain.com.key </VirtualHost> </pre>	

PHP.ini: /etc/php.ini	
<i>memory limit</i>	memory_limit = 100M
<i>POST max size</i>	post_max_size = 100M
<i>upload max filesize</i>	upload_max_filesize = 100M

NMap	
<i>Scan a Network</i>	nmap 192.168.0.0/24
<i>TCP Scan a host</i>	nmap -sT 192.168.0.122
<i>SYN Scan a host</i>	nmap -sS 192.168.0.122
<i>Guess Host OS</i>	nmap -O 192.168.0.122